

KING & SPALDING

King & Spalding LLP
1180 Peachtree Street N.E.
Atlanta, Georgia 30309-3521
Telephone: 404/572-4600
Facsimile: 404/572-5100
www.kslaw.com

RECEIVED
CENTRAL FAX CENTER
SEP 30 2008

FACSIMILE

Important Notice: This facsimile transmission is intended to be delivered only to the named addressee, and may contain material that is confidential, proprietary or subject to legal protection or privilege. If it is received by anyone other than the named addressee, the recipient should immediately notify the sender at the address and telephone number set forth herein and obtain instructions as to the disposal of the transmitted material. In no event should such material be read or retained by anyone other than the named addressee, except by express authority of the sender or the named addressee.

DATE: September 30, 2008

Recipient		City/State	Telephone #	Fax #
Centralized Fax Department	United States Patent Office	Arlington, VA		571-273-8300

FROM: Stephen C. MacDonald, Ph.D. 2737 **Our Ref. #:** MMI-0102 (14972.105004)

NUMBER OF PAGES (Including Cover Page): 4

MESSAGE:

In re Application of:)
SUE K. DENISE, ET AL.)
Application No. **10/750,622**) Confirmation No. **2415**
Filed: **December 31, 2003**)
Title: **COMPOSITIONS, METHODS AND SYSTEMS FOR**)
INFERRING BOVINE BREED)

Paper Attached:

Transmittal Form (1 page)
Request to Apply Prior Issue Fee Payment (1 page)
Payment of Issue Fee (1 page)

PLEASE CHECK THAT ALL PAGES ARE RECEIVED. IN CASE OF PROBLEMS, PLEASE CALL DIANE GUILFOY AT 404-572-3323.

ALL RETURN TELECOPY MESSAGES SHOULD BE SENT TO 404-572-5134. THANK YOU.

PTO/SB/21 (11-07)

Approved for use through 11/30/2007. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

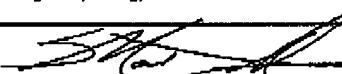
Total Number of Pages in This Submission

Application Number	10/750,622
Filing Date	December 31, 2003
First Named Inventor	Sue K. DeNise, et al.
Art Unit	1637
Examiner Name	David C. Thomas
Total Number of Pages in This Submission	Attorney Docket Number MMI-0102 (14972.105004)

RECEIVED
CENTRAL FAX CENTER
SEP 3 0 2008
ENCLOSURES (check all that apply)

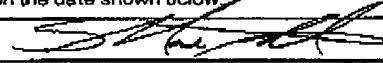
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	Request to Apply Prior Issue fee Payment
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	Issue Fee Payment
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	King & Spalding, LLP		
Signature			
Printed Name	Stephen C. MacDonald, Ph.D.		
Date	September 30, 2008	Reg. No.	60,401

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature	
Typed or printed name	Stephen C. MacDonald, Ph.D.
Date	September 30, 2008

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

P RECEIVED PAGE 03/04

**RECEIVED
CENTRAL FAX CENTER**

SEP 3 0 2008

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

DENISE ET AL.

Application No. 10/750,622

Filed: December 31, 2003

For: **COMPOSITIONS, METHODS AND SYSTEMS FOR INFERRING BOVINE BREED**) Art Unit: 1637

Attorney Docket No. **MMI-0102**

(14972.105004)

Examiner: David C. Thomas

REQUEST TO APPLY PRIOR ISSUE FEE PAYMENT

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant respectfully requests that the issue fee paid on March 3, 2008 in the above-identified patent application be reapplied to this application in fulfillment of the new Notice of Allowance and Issue Fees Due mailed on September 12, 2008. A completed form "PART B-FEE(S) TRANSMITTAL" accompanies this request.

Respectfully submitted,

St. Paul's

Stephen C. MacDonald, Ph.D.
Reg. No. 60,401

King & Spalding LLP
35th Floor, 1180 Peachtree Street, N.E.
Atlanta, GA 30309-3521
404.572.4600

CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this correspondence is being sent to the United States Patent and Trademark Office via facsimile transmission to 571-273-8300, attention Centralized Fax Department on September 30, 2008.

Stephen C. MacDonald, Reg. No. 60,401

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 or Fax (571)-273-2885

RECEIVED
 CENTRAL FAX CENTER
 SEP 30 2008

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

20786 7590. 09/12/2008

KING & SPALDING LLP
 1180 PEACHTREE STREET
 ATLANTA, GA 30309-3521

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Stephen C. MacDonald, Ph.D. (Depositor's name)

September 30, 2008 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,622	12/31/2003	Sue K. DeNise	MMI-0102 (14972,105004)	2415

TITLE OF INVENTION: COMPOSITIONS, METHODS AND SYSTEMS FOR INFERRING BOVINE BREED

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$1440	\$1440	12/12/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
THOMAS, DAVID C	1637.	536-023100

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.	1 King & Spalding LLP 2 _____ 3 _____
--	---	---

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Cargill, Incorporated
 MetaMorphix, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Wayzata, MN
 Beltsville, MD

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are submitted:

- Issue Fee
- Publication Fee (No small entity discount permitted)
- Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- A check is enclosed.
- Payment by credit card. Form PTO-2038 is attached.
- The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 11-0980 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature 

Date September 30, 2008

Typed or printed name Stephen C. MacDonald, Ph.D.

Registration No. 60,401

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.